

Abstract of the Disclosure

A rectifier for rectifying alternating current into direct current is described, in which a three-phase generator includes a three-phase stator winding (9). The phases (11, 12, 13) of the stator winding (9) are triggered via switching elements (15.1, 15.2; 16.1, 16.2; 17.1, 17.2) of a power circuit (8). The power circuit (8) is controlled via a control part (2), which includes a controller component (3, 55). The rectifier (1) includes a control part (2) (control module) having control terminals (30) and a power circuit (8) (power module) controlled by the control module and optionally provided with a cooling device (23, 24), in which all the power-conducting components (15.1, 15.2; 16.2; 17.1, 17.2; 13) are designed as power MOS components (28) and integrated in a stacked construction (20).

(Figure 2)